International application No. PCT/KR2005/000860

## A. CLASSIFICATION OF SUBJECT MATTER

## IPC7 H01L 21/3065

According to International Patent Classification (IPC) or to both national classification and IPC

#### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7 B01J 19/08, C23C 16/44, H01L 21/02, 21/3065, H05H 1/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched KOREAN PATENTS AND APPLICATIONS FOR INVENTION SINCE 1975

Electronic data base consulted during the intertnational search (name of data base and, where practicable, search terms used)
KIPONET

### C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 08-88190 A(NEC CORP) 02 APRIL, 1996 See the whole document	1-12
Α	JP 2003-24773 A(MATSUSHITA ELECTRIC IND CO LTD) 28 JANUARY, 2003 See the whole document	1-6
A	KR 20-0177585 Y1(HYNIX SEMICONDUCTOR INC.) 15 APRIL, 2000 See the abstract & fig. 1	1-6
Α	KR 2002-54479 A(SEMISYSCO CO LTD) 08 JULY, 2002 See the whole document	7-12
A	JP 2002-110642 A(SHARP CORP) 12 APRIL, 2002 See the whole document	7-12
A	WO 99/06610 A1(APPLIED KOMATSU TECHNOLOGY, INC.) 11 FEBRYARY, 1999 See the abatract & fig.2	7-12

1 1	Further documents ar	e listed in the	continuation	of Box C.
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- 'E" earlier application or patent but published on or after the international filing date
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- "&" document member of the same patent family

Date of the actual completion of the international search

11 JULY 2005 (11.07.2005)

Date of mailing of the international search report

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Name and mailing address of the ISA/KR



Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea

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# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No. PCT/KR2005/000860

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP 08-88190 A	02-04-1996	US 5690781 A	25–11–1997
JP 2003-24773 A	28-01-2003	NONE	
KR 20-0177585 Y1	15-04-2000	NONE	
KR 2002-54479 A	08-07-2002	NONE	
JP 2002-110642 A	12-04-2002	NONE	
WO 99/06610 A1	11-02-1999	US 6534007	18-03-2003

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- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
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KR 2002-54479 A	08-07-2002	NONE	
JP 2002-110642 A	12-04-2002	NONE	
WO 99/06610 A1	11-02-1999	US 6534007	18-03-2003